



Abazyme, LLC

Mouse anti-Human TGF- β Monoclonal Antibody Datasheet [TB21]

Catalogue No MO-C40009A

Product name Mouse anti-human TGF- β monoclonal antibody [TB21]

Clone No TB21

Product type Primary antibody

Description Mouse monoclonal antibody to Transforming Growth Factor beta (TGF- β), Protein G affinity purified

Target protein Human TGF- β

Immunogen TGF- β from human platelets

Specificity Western blotting demonstrated that this antibody reacts with the dimeric (25 kDa) and monomeric (12.5 kDa.) forms of TGF-beta under both non-reducing and reducing conditions respectively. This antibody recognizes both human platelet-derived and recombinant TGF-beta in ELISA.

Reactivity Human, others not tested

Clonality Monoclonal

Source Mouse

Myeloma Sp2/0-Ag14

Subclass IgG1

Light Chain Kappa

Formulation Lyophilized from a solution of 0.01M PBS, pH 7.0

Concentration Double distilled water is recommended to adjust the final concentration to 1.00 mg/ml

Applications

Western blotting, ELISA, neutralizing, and Immunohistochemistry (IHC): Formalin-fixed paraffin-embedded sections, frozen sections, i.e., ovine ovarian tissue, breast cancer sections.

Neutralizing: This antibody neutralizes TGF-beta activity in vitro, in an inhibition assay of CCL/64 cell growth and neutralizes the growth promoting action of TGF-beta in the NRK-49F colony forming assay. The effect of micro-injection of this antibody into one blastomere of two cell stage Xenopus embryos indicated that it was able to neutralize effectively the bioactivity of TGF-beta in vivo.

IHC: This antibody has been used to demonstrate TGF-beta in ovine ovarian tissue and human breast carcinoma at a dilution of 1:1000. As a consequence of the intense staining of the erythrocytes it is possible to locate a single cell within the ovarian stroma making it useful in locating very fine capillary networks within tissue.

Western Blotting: This antibody when used at an antibody concentration of 5--20 ng/mL will allow visualization of 100 ng/lane of TGF-beta.

Research Growth Factors, Hormones and their Receptors, Angiogenesis

Storage Store at -20° C

References Crawford, S. E. Thrombospondin-1 is a Major Activator of TGF-beta1 In Vivo. Cell 93:1159-1170 (1998) Biological Characterization of A Monoclonal Antibody TB21 Against Human Transforming Growth Factor-Beta 1. Aeta Biologica Experimentalis Sinica Vol. 26, No. 2 June (1993)

This product is for LABORATORY RESEARCH USE and further manufacture only, and can not be administered to humans or animals. This is not for use in diagnostic and therapeutic procedures.